PATENT COOPERATION TREATY

PCT

PCT REC'D 0 3 JAN 2006 INTERNATIONAL PRELIMINARY REPORT ON PATENTIABILITY

(Chapter II of the Patent Cooperation Treaty) WIPO

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	EOD EIDORINA A CONT	ON	San Farm DOT/IDE A /416		
USYS-014-006	FOR FURTHER ACTION		See Form PCT/IPEA/416		
International application No.	International filing date (da	y/month/year)	Priority date (day/month/year)		
PCT/US04/08496 19 March 2004 (19.03.2			19 March 2003 (19.03.2003)		
International Patent Classification (IPC) or national classification and IPC					
IPC(7): G06F 15/173 and US Cl.: 709/2:	24				
Applicant					
UNISYS CORPORATION					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of	f a total of Zsheets, includ	ding this cover sheet	<u>.</u>		
This report is also accomp	panied by ANNEXES, com	prising:			
a. Kent to the application	ant and to the International	l Bureau) a total of	sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
		tal of (indicate type	and number of electronic carrier(s))		
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items:					
<u> </u>	K-7				
Box No. II F	Priority	-			
	on-establishment of opinion with regard to novelty, inventive step and industrial				
	Lack of unity of invention	oplicability ack of unity of invention			
Box No. V	easoned statement under Article 35(2) with regard to novelty, inventive step or dustrial applicability; citations and explanations supporting such statement				
	ertain documents cited				
	ertain defects in the international application				
	ertain observations on the international application				
Date of submission of the demand		Date of completion			
		•	•		
12 October 2004 (12.10.2004)		13 December 2005 (1	13.12.2005)		
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US		Authorized officer			
Commissioner for Patents					
		David Wiley			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International	application No.	
michianonai	application No.	

		PCT/US04/08496		
Box No	. I Basis of the report			
<u></u>	 With regard to the language, this report is based on: the international application in the language in which it was filed. 			
	a translation of the international application into English, which purposes of:	is the language of a translation furnished for the		
	international search (under Rules 12.3 and 23.1(b))			
	publication of the international application (under Rule 12.4	4(a))		
	international preliminary examination (under Rules 55.2(a)	and/or 55.3(a))		
to th	regard to the elements of the international application, this report is base e receiving Office in response to an invitation under Article 14 are referenced to this report):	d on (replacement sheets which have been furnished red to in this report as "originally filed" and are not		
	the international application as originally filed/furnished	·		
	the description: pages NONE as originally filed/furnished pages* NONE received by this Authority on pages* NONE received by this Authority on pages*			
	the claims: pages 31-33 as originally filed/furnished pages* NONE as amended (together with any statement pages* 31-33 received by this Authority on 28 June 20 pages* NONE received by this Authority on	05 (28.06.2005)		
	the drawings: pages NONE as originally filed/furnished pages* NONE received by this Authority on pages* NONE received by this Authority on pages*			
	a sequence listing and/or any related table(s) - see Supplemental	Box Relating to Sequence Listing.		
3.	The amendments have resulted in the cancellation of:			
	the description, pages			
	the claims, Nos			

This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

	the description, pages
	the claims, Nos
	the drawings, sheets/figs
	the sequence listing (specify):
П	any table(s) related to the sequence listing (specify):

* If item 4 applies, some or all of those sheets may be marked "superseded."

any table(s) related to the sequence listing (specify): ____

the drawings, sheets/figs _____the sequence listing (specify): ___

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/08496

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement	-			
Novelty (N)	Claims 10-15, 22-27	YES		
, (c.,	Claims <u>1-9, 16-21</u>	NO		
Inventive Step (IS)	Claims NONE	YES		
• , ,	Claims 1-27	NO		
Industrial Applicability (IA)	Claims 1-27	YES		
	Claims NONE	NO		
claimed including a method and system for sending agent to collect device's characteristic for use the same. Hofmann further teaches the agent could be a set of software codes, instructions, scripts, that has been sent from a second device or embedded in the device itself. Further, Hofmann discloses the characteristic collected from the device includes but does not limit to, Hardware, resource configuration, including user information (Hofmann at abstract, figure 1-7, and column 1, line 55-column 10, line 50). Hofmann further discloses displaying at least one difference between the first data set and a second data set and comparing two sets of information to determine if a service available on the first device is not available on the second device (column 3, lines 21-34; column 6, lines 38-46; column 7, lines 4-17 and 38-51). Claims 10-15 and 22-26 lack an inventive step under PCT Article 33(3) as being obvious over Hofmann et al (referred to as "Hofmann" hereinafter). Although Hofmann does not explicitly discuss specific details and minor difference in away that one may apply the inventive concept to a specific application as recited, for instance, in claims 21 and 27. However, it would have been obvious to one of ordinary skill in the art that was an obvious variation of implementing the inventive concept in other words, it is a matter of desirable to apply Hofmann's idea with any other types of application including specific database application. Claims 1-9 and 16-21, lack novelty under PCT Article 33(2) as being anticipated by Hodges et al (referred to as "Hodges" hereinafter). Hodges teaches similar inventive concept as claimed. Hodges discloses a software agent is pushed to client's device to detect virus pattern, detecting virus version and performing update the virus. Hodges too, teach the same inventive concept for another application (abstract, figures 4, 7, 11-12, column 1-2, 7, 12-13). Hodges further discloses displaying at least one difference between the first data set and a second data set and				

1. A method for consolidating computing devices, comprising:

sending a discovery agent over a network connection to at least one computing device; receiving a first data set from said discovery agent indicative of characteristics of the at least one computing device; and

displaying at least one difference between the first data set and a second data set whereby a computing device consolidation candidate can be identified.

- 2. The method as recited in claim 1 wherein the second data set is from a computing device other than the computing device that was the source of the first data set.
- 3. The method as recited in claim 1 wherein the second data set is from the same computing device that was the source of the first data set but from a different time.
- 4. The method as recited in claim 2 wherein the at least one computing device is a server computer among a plurality of server computers.
- 5. The method as recited in claim 2 wherein the data set comprises information indicative of at least one application resident on the at least one computing device.
- 6. The method as recited in claim 2 wherein the data set comprises information indicative of at least one process executing on the at least one computing device.
- 7. The method as recited in claim 5 wherein the act of displaying at least one difference between the first and second data set comprises displaying an indication of a difference in the at least one application program in both the first data set and the second data set.
- 8. The method as recited in claim 5 comprising installing a version of the at least one application on a second computing device.
- 9. The method as recited in claim 8 comprising removing the at least one application from the at least one computing device.
- 10. The method of claim 6 comprising installing a version of the at least one process on a second computer.
- 11. The method as recited in claim 1 wherein the data set comprises information indicative of at least one database.

REPLACEMENT SHEET

AMENDED SHEET

12. The method as recited in claim II wherein the information indicative of the at least one database comprises column table information for tables in the at least one database.

- 13. The method as recited in claim 12 comprising populating a database on a second computer with at least a portion of the table information from the at least one database.
- 14. The method as recited in claim 1 wherein the act of sending the discovery agent to the at least one computing device comprises sending a remote procedure to the at least one computing device and remotely executing the remote procedure.
- 15. The method as recited in claim 14 comprising receiving the at least one data set via named pipes.
- 16. A method of consolidating services performed on a first and second computing device to a second computing device, comprising:

sending a discovery agent to the first computing device to determine a plurality of services provided by the first computing device;

receiving a first set of information indicative of the plurality of services provided by the first computing devices; and

comparing the first set of information to a second set of information indicative of a plurality of services performed by a second computing device to determine at least one service provided by the first computing device that is not available on the second computing device such that the at least oe service is indicative of a service to be added to the second computing device in a consolidation.

- 17. The method as recited in claim 16 comprising changing the services performed by the second computing device to include the at least one service.
- 18. The method as recited in claim 16 wherein the discovery agent comprises computer executable instructions for determining the system characteristics on the first computing device.
- 19. The method as recited in claim 18 wherein the system characteristics comprise at least one of: the number of processors, available processors, processor level, devices, disk drive characteristics, disk drive capacity, system name, page size, operating system version, operating system build, and network connectivity.

REPLACEMENT SHEET

AMENDED SHEPT

20. The method as recited in claim 16 wherein the discovery agent comprises computer executable instructions for determining the executable process characteristics on the first computing device.

- 21. The method as recited in claim 20 wherein the process characteristics comprise at least one of: CPU utilization, memory utilization, active processes, active process dependencies, processor usage, memory usage, process creation time, process ID, process owner, process handles, process version, dependency version, process timestamp, process description, and dependency description.
- 22. The method as recited in claim 16 where the agent is executed by way of a remote procedure call.
- 23. The method as recited in claim 16 wherein the agent communicates the data set by way of named pipes.
- 24. The method as recited in claim 17 wherein the services comprise an application service provided by the first computing device.
- 25. The method as recited in claim 17 wherein the service is a database service.
- 26. The method as recited in claim 16 wherein the discovery agent comprises computer executable instructions for determining the database characteristics on the first computing device.
- 27. The method as recited in claim 26 wherein the database characteristics comprise at least one of: roles, users, aliases, defaults, rules, functions, user defined datatypes, user messages, tables, views, indexes, extended procedures, stored procedures, and triggers.

REPLACEMENT SHEET

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